

Comparisons of Job Characteristics

Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Associated Occupation: Construction Managers (11-9021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Associated Occupation: Construction Managers (11-9021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	22.2	10.3	<< Extensive education and/or training may be required
Administration and Management	8.4	16.5	10.9	<< Extensive education and/or training may be required
Customer and Personal Service	11.3	15.4	10.8	<< Extensive education and/or training may be required
Engineering and Technology	5.7	15.3	18.9	>> Current knowledge level is likely more than sufficient
Design	5.2	14.4	15.9	> Current knowledge level is likely sufficient
Mathematics	9.2	12.6	15.1	> Current knowledge level is likely sufficient
Public Safety and Security	6.9	12.2	14.0	> Current knowledge level is likely sufficient
Mechanical	6.8	11.9	12.8	0 Current knowledge level may be sufficient
Personnel and Human Resources	5.6	11.0	7.1	<< Extensive education and/or training may be required
Law and Government	5.9	10.1	12.4	> Current knowledge level is likely sufficient
Economics and Accounting	4.4	9.1	5.6	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Associated Occupation: Construction Managers (11-9021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
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Management of Personnel Resources	6.9	13.0	7.5	<<	Extensive development of skills in this area may be required
Time Management	8.9	12.9	9.3	<<	Extensive development of skills in this area may be required
Coordination	9.1	12.8	9.8	<<	Extensive development of skills in this area may be required
Monitoring	9.9	12.8	10.8	<	A higher skill level may be required
Negotiation	6.8	12.3	7.7	<<	Extensive development of skills in this area may be required
Management of Financial Resources	3.3	12.2	4.0	<<	Extensive development of skills in this area may be required
Persuasion	7.4	11.7	9.0	<<	Extensive development of skills in this area may be required
Operations Analysis	5.0	11.1	11.0	0	Current skill level may be sufficient
Management of Material Resources	3.7	10.4	4.0	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 96			
Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111) Associated Occupation: Construction Managers (11-9021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	14.2	15.3	0	Current ability level may be sufficient
Far Vision	7.8	12.0	10.2	<	Some improvement in abilities may be required
Information Ordering	9.9	11.8	11.9	0	Current ability level may be sufficient
Visualization	7.5	11.5	10.2	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	11.0	8.7	<	Some improvement in abilities may be required
Number Facility	6.3	11.0	7.5	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	10.3	10.9	0	Current ability level may be sufficient
Time Sharing	6.6	8.3	6.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 64	
Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111) Associated Occupation: Construction Managers (11-9021)			
Work Activities			Exclusivity of Activity

Adhere to safety procedures	12
Compile information on findings from investigation of accidents	82
Direct and coordinate activities of workers or staff	3
Inspect facilities or equipment for regulatory compliance	51
Recommend action to ensure compliance	73

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)
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Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Light and wave generating and measuring equipment	4

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.